## **CLAIM AMENDMENTS**

Please replace all prior versions of the claims with the following listing of the revised claims.

- 1. (currently amended) A dilation catheter comprising:
- an elongate catheter body with at least one lumen; and
- a medical balloon disposed about a portion of the elongate catheter body in fluid communication with the lumen, the medical balloon comprising:
  - a proximal region and a distal region;
  - a balloon working length intermediate the proximal region and the distal region;
  - a proximal working length-to-taper transition;

wherein the proximal working length-to-taper transition comprises a radius before inflation from:

- 0.97 to 3.3 mm when the balloon has a working length diameter of about 3 mm.
- 1.8 to 4.7 mm when the balloon has a working length diameter of about 4 mm.
- 2.4 to 6.4 mm when the balloon has a working length diameter of about 5 mm,
- 3.5 to 8.3 mm when the balloon has a working length diameter of about 6 mm,
- 4.8 to 10.2 mm when the balloon has a working length diameter of about 7 mm,
- 6.2 to 11.4 mm when the balloon has a working length diameter of about 8 mm,
- 6.7 to 13.3 mm when the balloon has a working length diameter of about 9 mm,
- 8.1 to 15.2 mm when the balloon has a working length diameter of about 10 mm.
- 9.1 to 17.1 mm when the balloon has a working length diameter of about 11 mm,
- 9.9 to 19.1 mm when the balloon has a working length diameter of about 12 mm,
- 11.2 to 22.9 mm when the balloon has a <u>working length</u> diameter of about 14 mm, [[and]] <u>or</u>
- 13.3 to 25.4 mm when the balloon has a <u>working length</u> diameter of about 15 mm.
  - 2. (canceled).

- 3. (currently amended) The dilation catheter of claim 1, where the radius is from:
  - 1.3 to 3.3 mm when the balloon has a <u>working length</u> diameter of about 3 mm, 2.5 to 4.7 mm when the balloon has a <u>working length</u> diameter of about 4 mm, 3.2 to 6.4 mm when the balloon has a <u>working length</u> diameter of about 5 mm, 4.7 to 8.3 mm when the balloon has a <u>working length</u> diameter of about 6 mm, 6.4 to 10.2 mm when the balloon has a <u>working length</u> diameter of about 7 mm, 8.3 to 11.4 mm when the balloon has a <u>working length</u> diameter of about 8 mm, 8.9 to 13.3 mm when the balloon has a <u>working length</u> diameter of about 9 mm, 10.8 to 15.2 mm when the balloon has a <u>working length</u> diameter of about 10
- 12.1 to 17.1 mm when the balloon has a working length diameter of about 11 mm,

mm,

- 13.3 to 19.1 mm when the balloon has a <u>working length</u> diameter of about 12 mm,
- 14.9 to 22.9 mm when the balloon has a <u>working length</u> diameter of about 14 mm, [[and]] <u>or</u>
- 17.8 to 25.4 mm when the balloon has a <u>working length</u> diameter of about 15 mm.
  - 4. (currently amended) The dilation catheter of claim 1, where the radius is: about 2.5 mm when the balloon has a working length diameter of about 3 mm, about 3.2 mm when the balloon has a working length diameter of about 4 mm, about 4.7 mm when the balloon has a working length diameter of about 5 mm, about 6.4 mm when the balloon has a working length diameter of about 6 mm, about 8.3 mm when the balloon has a working length diameter of about 7 mm, about 8.9 mm when the balloon has a working length diameter of about 8 mm, about 10.8 mm when the balloon has a working length diameter of about 9 mm, about 12.1 mm when the balloon has a working length diameter of about 10 mm, about 13.3 mm when the balloon has a working length diameter of about 11 mm, about 14.9 mm when the balloon has a working length diameter of about 12 mm,

about 17.8 mm when the balloon has a <u>working length</u> diameter of about 14 mm, [[and]] <u>or</u>

about 19.1 mm when the balloon has a working length diameter of about 15 mm.

5-11. (canceled).

- 12. (previously presented) The dilation catheter of claim 1, where the proximal working length-to-taper radius is substantially equal to a distal working length-to-taper radius.
- 13. (previously presented) The dilation catheter of claim 1, where a proximal taper-to-neck radius, the proximal working length-to-taper radius, a distal taper-to-neck radius, and a distal working length-to-taper radius are substantially equal.
- 14. (previously presented) The dilation catheter of claim 1, where a proximal taper-to-neck radius and a distal taper-to-neck radius are substantially equal to each other.
- 15. (previously amended) The dilation catheter of claim 14, where the proximal working length-to-taper radius and a distal working length-to-taper radius are different from the proximal taper-to-neck radius and the distal taper-to-neck radius.
- 16. (previously presented) The dilation catheter of claim 1, where the proximal working length-to-taper radius and a distal working length-to-taper radius are different.

## 17-21. (canceled).

22. (currently amended) A method of reducing the force required to remove a dilation catheter from a conduit, comprising:

- (a) inserting the dilation catheter through the conduit, so a medical balloon disposed on the catheter emerges from the conduit, wherein the dilation catheter includes an elongate catheter body, the medical balloon comprising:
  - a proximal region and a distal region;
  - a balloon working length intermediate the proximal region and the distal region;
  - a proximal working length-to-taper transition;

wherein the proximal working length-to-taper transition comprises a radius before inflation from:

- 0.97 to 3.3 mm when the balloon has a working length diameter of about 3 mm,
- 1.8 to 4.7 mm when the balloon has a working length diameter of about 4 mm,
- 2.4 to 6.4 mm when the balloon has a working length diameter of about 5 mm,
- 3.5 to 8.3 mm when the balloon has a working length diameter of about 6 mm,
- 4.8 to 10.2 mm when the balloon has a working length diameter of about 7 mm,
- 6.2 to 11.4 mm when the balloon has a working length diameter of about 8 mm,
- 6.7 to 13.3 mm when the balloon has a working length diameter of about 9 mm,
- 8.1 to 15.2 mm when the balloon has a working length diameter of about 10 mm,
- 9.1 to 17.1 mm when the balloon has a working length diameter of about 11 mm,
- 9.9 to 19.1 mm when the balloon has a working length diameter of about 12 mm,
- 11.2 to 22.9 mm when the balloon has a <u>working length</u> diameter of about 14 mm, [[and]] or
- 13.3 to 25.4 mm when the balloon has a <u>working length</u> diameter of about 15 mm;
- (b) inflating the balloon by providing a fluid to a catheter lumen in fluid communication with the balloon;
  - (c) deflating the balloon; and
- (d) applying a force to the dilation catheter, so the balloon is withdrawn through the conduit.
  - 23. (canceled).
  - 24. (currently amended) The method of claim 22, where the radius is from:

1.3 to 3.3 mm when the balloon has a working length diameter of about 3 mm, 2.5 to 4.7 mm when the balloon has a working length diameter of about 4 mm, 3.2 to 6.4 mm when the balloon has a working length diameter of about 5 mm, 4.7 to 8.3 mm when the balloon has a working length diameter of about 6 mm, 6.4 to 10.2 mm when the balloon has a working length diameter of about 7 mm, 8.3 to 11.4 mm when the balloon has a working length diameter of about 8 mm, 8.9 to 13.3 mm when the balloon has a working length diameter of about 9 mm, 10.8 to 15.2 mm when the balloon has a working length diameter of about 10 mm,

12.1 to 17.1 mm when the balloon has a <u>working length</u> diameter of about 11 mm,

13.3 to 19.1 mm when the balloon has a <u>working length</u> diameter of about 12 mm,

14.9 to 22.9 mm when the balloon has a <u>working length</u> diameter of about 14 mm, [[and]] <u>or</u>

17.8 to 25.4 mm when the balloon has a working length diameter of about 15 mm.

25. (currently amended) The method of claim 22, where the radius is: about 2.5 mm when the balloon has a working length diameter of about 3 mm, about 3.2 mm when the balloon has a working length diameter of about 4 mm, about 4.7 mm when the balloon has a working length diameter of about 5 mm, about 6.4 mm when the balloon has a working length diameter of about 6 mm, about 8.3 mm when the balloon has a working length diameter of about 7 mm, about 8.9 mm when the balloon has a working length diameter of about 8 mm, about 10.8 mm when the balloon has a working length diameter of about 9 mm, about 12.1 mm when the balloon has a working length diameter of about 10 mm, about 13.3 mm when the balloon has a working length diameter of about 11 mm, about 14.9 mm when the balloon has a working length diameter of about 12 mm, about 17.8 mm when the balloon has a working length diameter of about 12 mm, about 17.8 mm when the balloon has a working length diameter of about 14 mm, [[and]] or

about 19.1 mm when the balloon has a working length diameter of about 15 mm.

26. (canceled).